

# SYTFB120MB1S

**Frequency Range** 

(GHz)

11.5 - 12.5

DC - 10.6

12GHz Surface Mount Bandpass Filter

Min

10

30

Тур.

2.0

14

45

Max

3.0

18

#### Description

Yantel's surface mount catalog bandpass filters utilize Yantel's low loss temperature stable materials which offer small size and minimal performance variation over temperature. The catalog BPF's are offered in a variety of frequency bands, which offers a drop in solution with highly repeatable performance.

#### Features

- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

0

-10

-20

-30

-40

-50

-60

-70

-80

-90

6

7

8

9

10

11

Magnitude (dB)

	High Side Rejection (dB)	13.2 - 19.5	30	45	
onent	CW Input Power** (W)				5
t Package evel: MSL1	$\theta_{JC} \left( \frac{^{\circ}C}{W} \right)$	15 13.33 x 5.71 x 2.62 mm			
er Temperature Temp: -55°C to +125°C	Size (L x W x H)				
ance: 50Ω	*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature. **Power rating assumes the component will be mounted to a PCB with good thermally conducting ground vias as outlined in the recommended PCB layout that are connected to an adequate heat sink. Max power is based on 125°C base temperature.				
Performance					
+	mm -				
	0 0				

Specifications\*

Parameter

**Insertion Loss** 

(dB)

**Return Loss** 

(dB)

Low Side

Rejection (dB)

#### **Typical Measured Performance**

\*Typical de-embedded measured performance mounted on a connectorized test fixture. DEB is 0.254mm RO4350B with 50.00hm CPW ground traces going into the ports at room temperature.

13

Frequency (GHz)

14

15

16

17

18

19

20

12

## Yantel Corporation Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China Tel: 86-755-8355-1886 Fax: 86-755-8355-2533 For detailed performance specs & shopping online see Yantel web site : <a href="http://www.yantel-corp.com">www.yantel-corp.com</a>



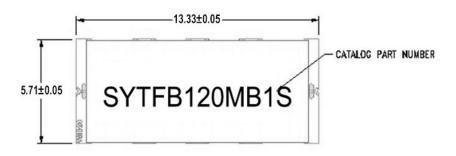
# SYTFB120MB1S

### 12GHz Surface Mount Bandpass Filter

#### **Physical Dimensions**

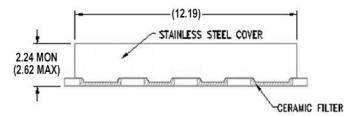
Units = mm

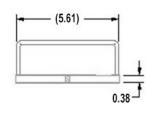
**Top View** 



#### Side View







#### 

#### Notes :

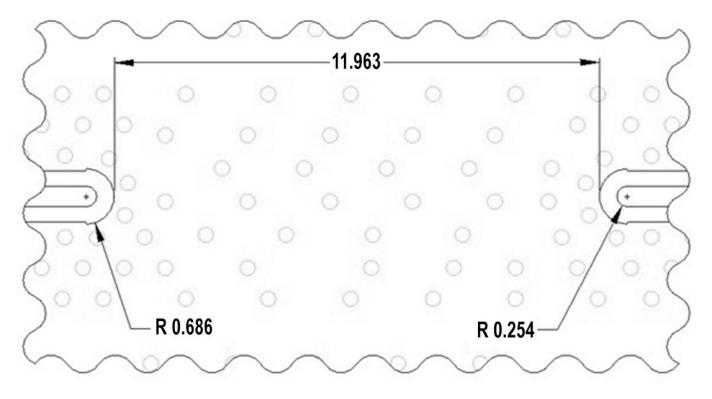
- 1. Termination Finish:
  - ENIG: 76-152 µm Au over 1270 µm Ni
- 2. Maximum Assembly Process Temperature: 250°C
- 3.Dimension tolerance: ±0.05



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### **Recommended PCB Layout**



Unit = mm

#### Note:

- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.